

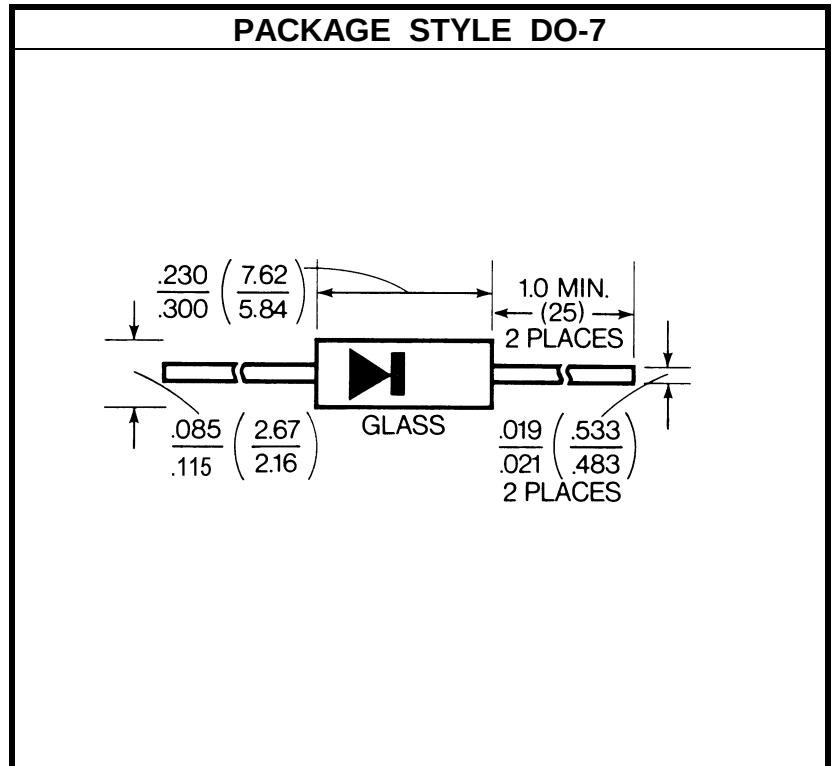
ABRUPT VARACTOR DIODE

DESCRIPTION:

The **ASI 1N5709B** is an Abrupt Varactor Diode, designed for general purpose applications.

MAXIMUM RATINGS

I_R	20 nA
V_R	70 V
P_{DISS}	400 mW @ $T_A = 25\text{ }^{\circ}\text{C}$
T_J	$-65\text{ }^{\circ}\text{C}$ to $+175\text{ }^{\circ}\text{C}$
T_{STG}	$-65\text{ }^{\circ}\text{C}$ to $+200\text{ }^{\circ}\text{C}$
θ_{JC}	250 $^{\circ}\text{C/W}$



CHARACTERISTICS $T_C = 25\text{ }^{\circ}\text{C}$

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
V_{BR}	$I_R = 10\text{ }\mu\text{A}$	65			V
I_R	$V_R = 60\text{ V}$ $T_A = 150\text{ }^{\circ}\text{C}$			20	nA
				20	μA
C_T	$V_R = 4.0\text{ V}$ $f = 1.0\text{ MHz}$	77.9		86.1	pF
C_{T4}/C_{T60}	$V_R = 4.0\text{ V}/V_R = 60\text{ V}$ $f = 1.0\text{ MHz}$	3.2		3.4	--
Q	$V_R = 4.0\text{ V}$ $f = 50\text{ MHz}$	150			--